

CLAIMS

We claim:

1. A gas discharge display for emitting light by discharging a discharge gas confined in a discharge space using electrodes to produce ultraviolet light and utilizing the ultraviolet light to irradiate a phosphor layer, thereby producing a visible ray, comprising:

a gas mixture as the discharge gas, which includes neon and krypton.
2. The gas discharge display of claim 1, wherein a proportion of the krypton is 1.1% to 5% by volume in the gas mixture.
3. The gas discharge display of claim 1, wherein a pressure of the gas is in a range of 250Torr to 500Torr.
4. The gas discharge display of claim 1, wherein the gas discharge display further comprises a front and a back glass substrate, and the electrodes are arranged on the front and the back glass substrates, respectively.
5. The gas discharge display of claim 4, wherein the front glass substrate with the electrodes are covered by a dielectric layer thereon.
6. The gas discharge display of claim 5, wherein a protective layer covers the entire surface of the dielectric layer.
7. The gas discharge display of claim 6, wherein the protective layer is made of magnesium oxide (MgO).
8. A gas discharge display for emitting light, comprising:

a plurality of discharge spaces formed by a space between a front glass substrate and a back glass substrate partitioned by a plurality of barrier ribs;

a plurality of electrodes arranged on the front glass substrate and the back glass substrate, respectively;

a plurality of phosphor patches applied on the back glass substrate, per corresponding a discharge space; and

a discharge gas confined in the discharge space having neon and krypton;

wherein the gas discharge display emit light by using the electrodes applying a voltage to the discharge gas to produce ultraviolet light and utilizing the ultraviolet light to irradiate the phosphor patch, thereby producing a visible ray.

9. The gas discharge display of claim 8, wherein a proportion of the krypton is 1.1% to 5% by volume in the discharge gas.
10. The gas discharge display of claim 8, wherein a pressure of the discharge gas is in a range of 250Torr to 500Torr.
11. The gas discharge display of claim 8, wherein the front glass substrate with the electrodes are covered by a dielectric layer thereon.
12. The gas discharge display of claim 11, wherein a protective layer covers the entire surface of the dielectric layer.
13. The gas discharge display of claim 12, wherein the protective layer is made of magnesium oxide (MgO).
14. A gas discharge display including means for emitting light by discharging a

discharge gas confined in a discharge space and using electrodes to produce ultraviolet light and utilizing the ultraviolet light to irradiate a fluorescent layer, thereby producing a visible ray, wherein

the discharge gas is a gas mixture which includes neon and krypton.

15. The gas discharge display of claim 14, wherein a proportion of the krypton is 1.1% to 5% by volume in the gas mixture.

16. The gas discharge display of claim 14, wherein a pressure of the gas is in a range of 250Torr to 500Torr.

17. The gas discharge display of claim 14, wherein the gas discharge display further comprises a front and a back glass substrate, and the electrodes are arranged on the front and the back glass substrates, respectively.

18. The gas discharge display of claim 17, wherein the front glass substrate with the electrodes are covered by a dielectric layer thereon.

19. The gas discharge display of claim 18, wherein a protective layer covers the entire surface of the dielectric layer.

20. The gas discharge display of claim 19, wherein the protective layer is made of magnesium oxide (MgO).